IAI ELTA Systems Ltd.
Group & Subsidiary of ISRAEL AIRCRAFT INDUSTRIES LTD.

DEFENSE
& SELF-PROTECTION

Integrated EW Self Protection Suite - INEW SPS

EL/L-8260/2

General

The EL/L-8260/2 is an Integrated Electronic Warfare Self Protection Suite for Helicopters (EL/L-8260) designed to deliver self-defense against Surface-to-Air and Air-to-Air weapon systems. The system enhances the survivability of helicopter platforms during operations in a hostile, multi-spectral weapon systems environment.

The EL/L-8260/2 is a modular EW suite consisting of the following

- E.W. Suite Central Processor
- Radar Warning Receiver (RWR)
- Laser Warning Receiver (LWR)
- Missile Approach Warning System (MAWS)
- Advanced Chaff & Flare Dispenser

Upon detection and identification of lethal threats by the Warning Subsystems, the threat will be displayed and effective chaff and Flare dispensing will be activated as defined by the Pre-Flight Messages (PFM). The architectural design of the Self-Protection Suite is based on ELTA's proven experience of more than 30 years in the design and manufacture of EW Systems.

Features

- Autonomous multi-spectral threat environment analysis and identification by integrating and fusing the data from the RWR, LWR and MAWS
- Effective Chaff & Flares dispention to suppress weapon systems operation. The system maintains Chaff & Flares inventories during the entire mission
- Flight line programmability enables loading the PFM via a Data Field Loader (DFL) for rapid adaptation to changing threat parameters. The PFM is prepared by using a PFM Generator (PFMG)
- Full integration with other onboard avionics by using 1553 MUXBUS interface. System's operation via the Multi Function Display (MFD)
- Efficient maintainability achieved by extensive Built In Test (BIT) diagnostics and modular architecture

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Specifications

Radar Warning Receiver

The RWR provides the pilot with real-time threat warning and data in a dense-enmitter combat environment.

The RWR's salient performance capabilities include:

- Radar Warning for front line aircraft.
- Identification of Pulse, Pulse Doppler, CW and other exotic threats.
- Whole frequency range coverage while maintaining a very short cycle time.
- High sensitivity of threats detection beyond their lethality envelopes.
- Positive identification based upon threat's frequency and time domain characteristics.
- Operational flexibility and ELINT data adaptability.
- Field reprogrammability.
- Recording of unidentified threats.
- High integration with the active jamming systems.
- The RWR controls commonication and coordination between the aircraft avionics and other ISDS units.
- Chaff & Flare dispensing initiation.
- Easily upgrades or replaces an existing RWR.

Chaff and Flare Dispenser (CFD)

The Chaff and Flare Dispenser dispenses standard expandables to provide effective protection countermeasures against radar and infra-red (IR) guided missiles.

The CFD supports various types of operational modes such as Automatic, Semi-Automatic and Manual modes and enables up to 16 firing programs, controlling types, quantities and time intervals.

Missile Approach Warning System (MAWS)

The MAWS is an advanced Pulse Doppler solid state radar which provides reliable warning against any type of approaching missiles for timely activation of countermeasures.
Its main features are:

- Azimuth coverage of 360°
- Very low false alarm rate
- All weather capability ; no visibility shortcomings
- Short reaction time
- Range and approaching velocity measurements

Laser Warning Receiver (LWR)

The LWR detects laser radiation emanating from range finders and illuminations used for accurate targeting and beam riders as a prelude for firing actions. Upon detection of the laser radiation, a warning is delivered for the initiation of self-protection actions.
Its main features are:

- Azimuth coverage of 360°
- Very low false alarm rate
- High sensitivity
- Immunity to EMI and solar disturbances

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